

a material holder holding a holographic recording material having elemental holograms;

an object beam unit, including a removable band-limited diffuser, for displaying a rendered image and for conditioning the object beam with the rendered image to interfere with the reference beam at a chosen elemental hologram;

a removable masking plate located in the path of the reference beam and proximate to the holographic recording material; and

a computer programmed to control the interference of the object beam and the reference beam and the delivery of the rendered image to the object beam unit,

as required by independent claim 36.

Regarding the claimed "material holder holding a holographic recording material," the applicants respectfully submit that Newswanger's holographic film 50 simply teaches a holographic recording material and not a material holder.

Regarding the claimed "an object beam unit, including a removable band-limited diffuser," the Examiner refers to a number of components shown in **Figure 4** including frosted screen 44. The applicants respectfully submit that Newswanger's frosted screen 44 is not a *band-limited* diffuser. Moreover, Newswanger does not teach or suggest that frosted screen 44 is removable.

Regarding the claimed "removable masking plate," the Examiner refers to mask 52 or shutter assembly 60. The applicants respectfully submit that neither mask 52 nor shutter assembly 60 teach or suggest a *removable* masking plate.

Finally with respect to the claimed "a computer programmed to control the interference of the object beam and the reference beam and the delivery of the rendered image to the object beam unit," the Examiner refers to column 6, lines 41-44 of Newswanger which state in relevant part:

2. The holographic stereogram display of claim 1 wherein the plurality of image pairs are of related subject matter, whereby displaying said image pairs in a sequence controlled by the control of said light sources will create an animated holographic stereogram display. (Column 6, lines 42-46)

While Newswanger may teach displaying image pairs (as part of a holographic *display*) in a sequence controlled by the control of the light sources used, he does not teach or suggest a *computer programmed to control the interference of the object beam and the reference beam and the delivery of the rendered image to the object beam unit*.

Accordingly, the applicants respectfully submit that independent claim 36 is allowable over Newswanger. Claims 37 and 38 depend from claim 36 and are allowable for at least this reason.

Newswanger neither teaches nor suggests an apparatus for printing holographic stereograms including:

a material holder holding a holographic recording material having elemental holograms . . .

a voxel-control lens located in the path of the object beam and proximate to the holographic recording material; and

a computer programmed to control the interference of the object beam and the reference beam and the delivery of the rendered image to the object beam unit,

as required by independent claim 39 and generally required by independent claim 57.

Regarding the claimed material holder and computer, the applicants respectfully submit that Newswanger neither teaches nor suggests these claim limitations for the reasons previously stated with respect to claim 36.

Regarding the claimed "voxel-control lens," the Examiner refers to Newswanger's lens 46. The applicants respectfully submit that Newswanger's lens 46 is not a *voxel-control* lens (within the meaning of term as used by the applicants) and lens 46 is not *proximate* to the holographic recording material.

Accordingly, the applicants respectfully submit that independent claims 39 and 57 are allowable over Newswanger. Claims 40 and 41 depend from claim 39 and are allowable for at least this reason.

In view of the amendments and remarks set forth herein, the application is believed to be in condition for allowance and a notice to that effect is solicited.

Nonetheless, should any issues remain that might be subject to resolution through a telephonic interview, the examiner is requested to telephone the undersigned.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on Oct 4, 2002.

  
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Attorney for Applicant(s)

10/4/02  
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Date of Signature

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